

1.- 62. Canceled.

63. (Currently Amended) A method of calculating a patient's relative risk (RR) for cardiovascular disease (CVD) ~~by~~ said method comprising:

binding a probe to a polymorphic site of a gene of interest of the patient and

genotyping a single nucleotide polymorphism (SNP) in baySNP 8242, baySNP 900066 and baySNP 900073 ~~DNA~~ of the patient, wherein for three possible genotypes of each SNP, the relative risk associate with each genotype is calculated as follows:

$$RR\ 1 = \frac{N\ 11}{N\ 21} \bigg/ \frac{N\ 12 + N\ 13}{N\ 22 + N\ 23}$$

$$RR\ 2 = \frac{N\ 12}{N\ 22} \bigg/ \frac{N\ 11 + N\ 13}{N\ 21 + N\ 23}$$

$$RR\ 3 = \frac{N\ 13}{N\ 23} \bigg/ \frac{N\ 11 + N\ 12}{N\ 21 + N\ 22}$$

wherein:

RR1 represents the relative risk for genotype 1;

RR2 represents the relative risk for genotype 2;

RR3 represents the relative risk for genotype 3;

N11 represents genotype 1, N12 represents genotype 2, and N13 represents genotype 3 for a population of patients that are being tested for CVD;

N21 represents genotype 1, N22 represents genotype 2, and N23 represents genotype 3 for a population of patients that are known not to be at risk for CVD;

a value of $RR1 > 1$ indicates an increased risk for CVD for individuals carrying genotype 1;

a value of $RR2 > 1$ indicates an increased risk for CVD for individuals carrying genotype 2; and

a value of $RR3 > 1$ indicates an increased risk for CVD for individuals carrying genotype 3.

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65. (Previously Presented) The method of claim 63 ~~64~~, wherein the SNP is baySNP 900066 and is a C to T SNP.

66. (Previously Presented) The method of claim 65, wherein genotype 1, genotype 2, and genotype 3 are CC, TT, and CT.

67. (Currently Amended) The method of claim 63 ~~64~~, wherein the SNP is baySNP 8282 and is an A to G SNP.

68. (Previously Presented) The method of claim 67, wherein genotype 1, genotype 2, and genotype 3 are AA, AG, and GG.

69. (Currently Amended) The method of claim 63 ~~64~~, wherein the SNP is baySNP 900073 and is a C to G SNP.

70. (Previously Presented) The method of claim 69, wherein genotype 1, genotype 2, and genotype 3 are CC, CG, and GG.

71. -92. Canceled